Color infrared photograph assembled by the Ontario Ministry of the Environment from photos supplied by Environment Canada's remote sensing unit show a panorama of the Metro Toronto waterfront during spring runoff. The white plumes off the river mouths

show silt picked up by fast-flowing Don and Humber Rivers washing into Lake Ontario. Colors are produced by the color infra-red film and do not necessarily match colors as detected by the eye.



Mobile air monitor world's most capable

With the purchase of the Ontario will acquire the most mobile TAGA 3000 system announced by Minister George McCague in the Ontario Environment

advanced mobile monitoring in-strument available in the world today for the detection and the qualitative and quantitative measurement of even the most complex organic compounds.

The TAGA (Trace Atmospheric Gas Analyser) sys-tem has been developed, patented, and is built in Canada by SCIEX Inc., a wholly Canadian company formed by three University of Toronto professors and a Canadian mar-

"The system is far ahead of any mobile chemical analytic equipment for measuring air ontaminants used anywhere in the world and has created since its introduction unusual interest in the scientific community, especially in the US," said Tom W. Cross, assistant director of the Air Resources Branch, explaining the new acquisition.

chemical components by using a conventional mass spectrometer. The capacity of this instrument, however, has been enhanced a thousand-fold by the incorporation of micro-computer governed equipment able to selectively ionize molecules of the investigated material. This allows a continuous identification and quantification of selected chemicals in milliseconds. Its unique effectiveness is due to its ability to monitor contaminants in "real time" by sampling directly into the in-strument from the ambient atmosphere without additional sample preparation.

The Ministry's mobile II air van used by the Air Resources Branch now can detect and monitor the presence of eight to ten pollutants in the air with a precision of parts per million. The new equipment will be able to identify selectively and con-tinuously hundreds of organic chemicals found in the air or in

(continued pg. 2)

Budget: \$283 million

78/79 environment policy firm but realistic-McCague

Ontario spending estimates for the fiscal year 1978-79 before a committee of the Legislature March 28, Environment Minister George R. McCague committed the Ministry to a "firm but realistic" approach to en-vironmental regulation.

"We do not intend to retreat from the high standards which we have established in Ontario,' said Mr. McCague "but we in tend to temper our policies with common sense and to take into account the economic factors which affect us today, especially our high levels of unemploy ment and the competitive

... no retreat from high standards...

position of Ontario industry both at home and abroad.

Citing an example of this approach, Mr. McCague referred to recently announced new measures affecting carbonated soft drink containers, to amend a

Inside LEGACY

Paper recovery pg. 2

Environmental education pg. E1-E4 (special pull-out)

Throwaway society pg. 3 Asbestos analysis pg. 4 all non-refillable glass soft-drink containers, originally scheduled to go into effect April 1, 1978.

He said the amendment, per mitting the continued sale of soft drinks in non-refillable bottles in three designated sizes, will avert what the industry has estimated to be significant unemployment in the glass con-

tainer industry.

However, Mr. McCague said as a result of the amendment and the industry program, the Ministry anticipates a marked reduction in solid waste caused by throwaway containers and a steady increase in the use of more environmentally-acceptable refillable bottles

"We'll get the job done without undue displacement in the work force and we'll continue to apply this regulatory philosophy with minimal economic side effects," he said.

Before the estimates committee of the resources development secretariat, Mr. McCague

New assistant deputy minister appointed (see pg 3.)

outlined a Ministry of the Environment spending program of about \$283 million in 1978-79, including these highlights:

The Ministry of the Environment's capital construction program for sewage and water vorks construction has increased in total dollars from \$67 million in 1972 to \$185 million in

municipalities have been in-

formed by the Ministry and by

their local municipalities of the

project. In Toronto and Etobi-

coke collection of separated

In Aurora, householders are

asked to deliver separated waste

to three conveniently located

"Revenues from the sale of

the collected newspapers, glass,

to the local communities.

About \$18 million will be made available for up-front grants to municipalities according to a new direct grant plan which will extend provincial funding to municipally-owned sewage and water facilities

In the past, only joint provincial-municipal and provincially-owned projects have qualified

Mr. McCague told the estimates committee the Ministry will proceed with all projects for which agreements have been signed and would continue in the role of safe-guarding human health and the environment by providing laboratory and tech nical services to monitor water quality and to ensure efficient plant operation.

(continued pg. 4)

Waste separation at source starts in Toronto area

materials has started.

A "Divide and Conquer" program for the separate collection and recycling of household waste is starting in areas of Toronto, Etobicoke, Halton Hills, and in the Town of Aurora, Ontario Minister George R. McCague announced. The program is a joint effort of Environment Ontario and municipal works departments in the involved communities.

"The annual output of solid waste of one person would now fill an 18-storey high garbage can," Mr. McCague explained. "Twenty-five per cent of this can be recycled, if all households co-operate. The 'Divide and Conquer' program involves home separation of " Chief Librarian University Of Toronto Simcoe Hall Toronto, Ontario able materials for

sale to industrial Householders

'The Ministry is assisting some municipalities in develop ing equipment and in marketing the collected materials. In all areas householders will be in-formed by a newdeterwill provide valuable information to increase the opportunities for source separation of materials for recycling, where markets are available. This will not only reduce the demand for landfill, but will also provide savings in energy and resources for the benefit of all.

POSTMASTER: OF ADDRESSEE HAS MOYED, DO NOT FORWARD BUT RETURN WITH PRESENT ADDRESS IF KNOWN





Jack Donnan, economist with the Environmental Approvals Branch, empties the first load of waste paper collected at the head office into the storage bin for recycling. Bill Davidson, of Browning-Ferris Industries, drove the first truckload to the Resource Recovery Centre for babing. The Project Paper Recycling is administered by Mr. Donnan and the Resource Recovery Branch.

Project Paper Recovery off to a good start

Over 2½ tons of high-grade waste paper valued at about \$100 per ton was collected by employees of Environment Ontario's head office at 135 St. Clair Ave. West during the first ix weeks of "Project Paper Recycling". The first shipment of the desk-top separated paper was picked up on March 17 and shipped to the Ministry's Resource Recovery Centre in Downsview.

High quality paper is the largest single item of all office waste, and is also the paper most suitable for recycling," ex-

plained Jack Donnan, Ministry economist. "Paper manufacturers can use it either as deinking grade or as pulp substitute."

The type of paper collected at the Ministry's offices in desk top holders consists basically of used office paper, reproduction paper, envelopes, index cards, computer cards and print-outs, bond, and similar products. Each employees has been supplied with a desk top container manufactured from recycled cardboard. When this container is full, it is empthed into central

containers placed on each floor.
Cleaning staff empty floor.
containers into a large waste
collection bin. From here the
paper is transported to the Ministry's Resource Recovery Centre in Dowsview, baled and
stored for pick-up.

Project Paper Recycling has been organized by the Ministry's Resource Recycling Centre as a pilot project. Experiences gained during its operation may be later applied to similar projects in Ontario Government offices.

Fish information

Reliable information on contaminants in fish based on more than 30,000 fish samples from 440 Ontario lakes and rivers is now available from Environment Ontario, Minister George R.McCague announced.

Three free books covering Northern Ontario and the Great Lakes provide detailed species-by-species and lake-by-lake fish consumption guidelines. A technical manual containing more detail is also available through the Ontario Government book store on 880 Bay Street, Toronto at \$5 copy.

In all publications the levels of major contaminants: mercury, mirex, PCB's and DDT are correlated with maximum recommended consumption for that species and size.

Air quality monitor

(continued from page 1)

Quality and quantity of the identified chemicals are registered on a continuous graph and on magnetic tape for further computer evaluation. Sensitivity of the readings is in the parts per billion or parts per trillion range.

The new TAGA 3000 will be delivered to the Ministry in the fall of this year. Its first use will probaby be the monitoring of PCB in the atmosphere with an immediacy and precision not available before.

The analytical instruments of the new vehicle operate as well in motion as in the stationary mode, and the system will be also used to monitor the movement and changing composition of plumes emitted from industrial stacks and other sources.

Data collection and analysis will be available to Ministry scientists without the delays usually caused by trial runs and the training of personnel on new equipment, as Ministry staff can study the new method on a somewhat simpler prototype, the TAGA 2000, owned by the federal government and available temporarily to Environment Ontario. For an introductory period the new TAGA 3000 instruments will be operated by SCIEX staff — a staff that matches the equipment in its sophistication — even the driver of the new "bus" has a Ph.D. degree.

It's all one world...

THAMES HAS 95 VARIETIES

Since the introduction of water pollution control measures in England in 1964, 95 species of fish and other aquatic fauna have returned to the Thames River, reports the New Scientist. The most recent returness identified are the long spined Sea Scorpion, and the Worm Pipefish. Specimen of both species were caught during a routine survey at the West Thurnock power station.

TO FEED OR

A lively discussion on the feeding of sewage sludge arose at a fish farming conference recently held in London. Professor Ron Edwards from the University of Wales claimed that farming of fish on domestic sewage sludge could provide an animal product whithout the heavy energy input of intensive livestock farming or trout rearing. Hugh Fish, from the Thames Water Authonity, maintained, that sewage sludge is far from sterile and may contain harmful pathogens, minerals, detergent residues and organic chemicals. He would rather extract fat (about 25 per cent) and proteins (about 16 per cent), and process these materials into

Professor Edward countered that the production of very small

species, such as worms that could be fed to fish may be even more profitable. A sewage works serving a population of 100,000 may produce by this detour some 30 tonnes of live fish per year. Hugh Fish agreed, that while the use of fecal wastes for food fish may encounter consumer resistance, the fish fed worms reared on sludge may be used for the production of fish meal for livestock feed.

ARE SHORTER STACKS BETTER?

Stacks over 100 meters (300 feet) high seem to disperse pollutants less effectively than shorter ones, found the US National Oceanic and Atmospheric Administration (NOAA). Experiments revealed, that above 100 meters air movement is much more stable than lower down, as variations in wind direction at that height are small. The result is that pollutants falling from this height to the ground are likely to accumulate in greater concentration than would be expected. says NOAA. But how these pol-lutants can do that, after passing through the more turbulent lower strata, is not explained

MEASURING OIL DISCHARGES

Oil transport is a one-sided affair. On the return trip seagoing tankers must fill the then

empty oiltanks with seawater to remain right-side up, and before taking on another load, this ballast water, containing residue oil, must be discharged. According to some scientists it is this ballast water that contributes significantly to elumps of oil free-floating in the Allantic, as reported by Heyerdahl and others.

To reduce the effect of the dumping of oil contaminated ballast water, an international limit to such oil discharge was set at 60 liters per mile of ship travel. A British manufacturen, is now marketing a device that reads the oil content of ballast water in parts per million and combines this reading with the ship's log speed measurement to assure that the discharge remains below the limit. Babcock claims that tankers discharge annually 1.6 million tonnes of oil into the sea. By using their instrument, this could be reduced to 0.3 million tonnes.

FOREST MAY SUPPLY CANADA'S FUEL NEEDS

Energy from forests' could provide up to 25 per cent of Canada's primary energy usage by the turn of the century, federal Environment Minister Len Marchand told the faculty and students of Yale Universities School of Forestry and Environmental Studies recently in New Hayen, Conn. The wood harvest could be transformed into methanol to be used as an alternative to oil derived fuels in road transport.

The Minister warned his audience, however, that harvesting the forest resources for methanol production poses serious questions about environmental effects. Further studies are required to determine how best to derive energy from the forests without courting ecological disaster.

MIREX IN TEXAS BUT NOT IN CANADA

"We have some 44,000 pounds of it and give it away to everybody who needs it", said James Whitmire, district supervisor for the Texas Department of Agriculture to a reporter of the Houston Chronicle.

What Mr. Whitmire was talking about is a pesticide known as
sure death for fire ants, but also
containing Mirex suspected to
cause cancer in humans and
banned by the US federal Environment Protection Agency.
In the soil, Mirex also may break
down into the very toxic
kepone. The use of Mirex was
terminated in Ontario in 1970.

Despite these dangers, the pesticide containing Mirex, continues to be used mixed with bait at a rate of two pounds per acre in 60 of 95 ant infested counties in Texas.

ANOPHELES MARCHES ON

Many tropical countries which thought they had conquered malaria are now facing a frightening resurgence of the disease, reports the World Health Organisation (WHO). India, where malaria cases were reduced from 100 million in 1952 to only 60,000 in 1962, is now again registering 6 million cases. In Ceylon, where the annual number of cases was reduced to 25, now overtwo million because. In Central America, the number of cases has doubled from 1974 to 1975 in Nicaragua and quadarupled in Honduras.

The new spread of the disease is not due to a reduction of the application of pesticides, but to a fast spreading immunity of the anopheles mosquito to the various chemicals, including DDT, used to control it. In many cases it was found that the im munity of the insects is not only limited to types of chemical pes-ticides, but even to non-chemical insect development inhibitors such as juvenile hormones and mimics. One strain of Anopheles has even learned to leave the house after biting a human victim instead of resting on the insecticide sprayed walls. In addition, the most dangerous form of malaria is showing increasing resistance to chlo-roquine, the standard drug used

Environmental education on the move

This year for the third summer, students hired and trained by the Ministry of the Environ-

ment will again travel the roads of Ontario conducting and promoting environmental studies in schools, children's camps and provincial parks.

The purpose of the program is threefold: 1) to foster a clear awareness of and concern about the environment, 2) to encourage an appreciation of the out-of-doors among young people; and 3) to motivate individuals of all ages to actively participate in environmental improvement and protection

Beginning in early June, the two teams of students will start off across Ontario – one team in Southern and the other in Northern Ontario. They will work primarily in the following locations

> **SCHOOLS:** During the month of June our mobile education teams will visit elementary schools at the request of the principal, to work with the students and teachers on a variety of environmental studies and activities, selected by the teacher from page E2. Films are also available.
>
> Note: To ensure that each student derives maximum ben-

efit from the activity, the groups must be limited to half a class

at a time.

The schools are asked to provide the members of the team

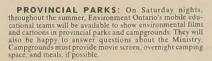




CAMPS: Throughout July and the first two weeks of August, the Ministry's educational teams will travel to children's day and residential camps, offering a variety of environmental programs depending on the location and camp facilities. Two types of sessions are available: 1) studies for campers and 2) instructional techniques for counsellors interested in carrying out environmental activities. All groups should be limited to fifteen with at least one counsellor, accompanying the campers durin the size.

accompanying the campers during their session.

Camps are asked to provide the teams with meals and overnight accommodation, if required.



To arrange for the mobile educational team to visit your school, camp or campground, please contact:
The Co-ordinator,

Summer Environmental Education Program. Information Services Branch, Ministry of the Environment 135 St. Clair Avenue West, Toronto, Ontario M4V 1P5



The Environment Show









Time:



Learning the environmental way

Environment Ontario's environmental education teams are available throughout June, July, and August to run the following activities and studies in schools and children's camps around the Province.

Please see page E1 to arrange for bookings.

Soil: An introduction to the various types and properties of soil. This study is designed to promote a greater understanding of the importance of soil as a life supporting system. It can be adapted to children of all levels. Time: 1-1½ hours.



Lown/Field: By exploring a given area of lawn or field for plant and animal life and by taking the physical environment into account, children are made aware of the interactions occurring within this natural setting. Time: 1 hour.

Environmental Games: Youngsters learn about animal habits, survival techniques, population growth and man's impact on the environment through games and role-playing. Time: 1 hour. (it could also be an entire evening program)

Insect Study: Children are introduced to the various types of insects in the area, their homes and how to catch and observe them. (Collections are not encouraged.) This study should generate inquisitiveness and inspire youngsters to undertake further investigations. Time: 1½ hours.

Equipment Building: Youngsters are taught how to make simple environmental sampling equipment for insect and aquatic habitat studies and are instructed as to their use. Schools and camps are requested to provide the inexpensive materials for this study. Time: 1 hour.

Aquatic Habitat: By examining the plant and animal life found within a body of water, children will study the inter-relationships existing in the aquatic community and develop an appreciation of nature's handicraft. Time: 2 hours.

Nature Walks: The basic goal of this activity is of encourage youngsters to greater observations, insights and appreciation of the world around us. One of the major concepts is that there is nothing that does not change. Time: I hour.

Acclimatization: A sensory approach is used to help the campers develop a greater awareness of the environment. The senses — taste, smell, touch, sight and sound — are used individually and collectively to increase the campers "feel" of the out-of-doors. Time: I hour.

Litter: Through games, art activities and films youngsters are taught the problems associated with waste management and litter and the necessity of respecting their environment. Time: I hour.

Art and Language Skills: Children are encouraged to appreciate and enjoy nature through sessions on sketching, writing and talking about the environment. Time: I hour.

Counsellor Workshop: The detection technique of conducting environmental studies is introduced; several campsite investigations are studied; films are viewed; and assistance is given in developing individual environmental programs. Time: 3 hours.



McCaque: Throwaway society must change habits

Environment George McCague outlined En vironment Ontario's waste management objectives to the Association of Counties and Regions of Ontario's April seminar at Toronto's Airport Hilton Hotel

Mr. McCague told the assembled regional chairmen, reeves and municipal councillors that the Ministry needed their assistance in developing solutions to current issues o waste management in urban areas. "We find the problems of waste management now escalating as we run out of suitable landfill sites. The problem is compounded by the habits of our 'throwaway' society and the increasing generation of industrial wastes, including many toxic substances", he said

"In 1974, for example, the latest year for which I have figures, municipalities spent \$70 million for the management and disposal of solid waste in southern Ontario. An estimated five million tons were generated by a population of seven million

...5,000,000 tons of waste from 7,000,000 people...

at a generation rate of four at a generation rate of four pounds of garbage per capita per day. Assuming an annual in-crease of four per cent, solid waste would expand to 16 million tons in the next 20 years.

"Equally important as the cost of waste disposal is the real waste of resources and energy this garbage represents. We throw away more than 2-¼ mil-lion tons of paper and ½ million tons of metal every year. It's also significant that 2- 1/3 million tons of this waste is packaging material". Mr. McCague told the municipal officials that a solution to this shared problem requires a number of approaches which must be pursued in parallel.

The Minister named the fol-

lowing approaches:

1. A reduction in the quantity and types of material produced which are likely to result in waste. The ministry and the waste management advisory board have initiated dialogue with the packaging, soft drink, and other related industries and

groups.

2. We must inspire new attitudes among producers and consumers to emphasize the conservation of materials and

energy;
3. We need to persuade householders to separate certain elements of waste at source, and develop systems to take advantage of this home separation

4. There is a need for the es-tablishment of a network of

central resource recovery plants; 5. And, finally, we must promote the use of reclaimed materials, and develop new uses and markets for these

The objectives of the Ministry's waste recovery program can be achieved by various means, Minister McCague said.

"We are continuing to assist management planning. We offer a 50 per cent subsidy for the construction of resource recovery plants with 40-year financing of the balance of capital costs. This financing, we feel, makes it possible for a municipality to invest in a \$15 million plant to reclaim metal, paper, cardboard, and fuel from

a 1,000 ton per day plant.
"Municipalities have been slow in responding to this offer so far. No doubt some of you legitimately, about the high cost of facilities, the higher operating costs as compared to landfill and about the uncertainties which still exist in technology and markets

Recycling and reclamation will ultimately depend on reliable markets for the reclaimed

...we offer 50% subsidies and 40 vear financing...

goods. For this reason, my min istry is attempting to establish and to develop these markets and the viability of reclamation at our new centre for resource recovery in Downsview, which will be in full operation by June.

"This \$14.5 million facility in Downsview is a functioning resource recovery plant capable of handling up to 600 tons of refuse on a two-shift a day basis. Equally important, it is the laboratory in which various technologies and methods are of producing a wide range of market development

"This plant has been func-tioning efficiently since last March, as a transfer station for Metro Toronto garbage, hand-ling as much as 900 tens a day. urthermore, we are already finding new markets for sepa rately collected paper and card-board delivered to the plant.

"Separated paper and light combustible wastes processed through the plant will be used this year as a fuel enrichment in

... Downsview plant in operation in June...

the Canada Cement LaFarge kilns in Woodstock replacing up to 40 per cent of the coal normally used.

"If this experiment succeeds we will have a good, stable mar-ket for refuse-derived fuel. The has five plants throughout southern Ontario, all close to urban areas - which would comprise a potential market for refuse-derived fuel from other municipalities

"Another promising market for reclaimed paper from our resource recovery plant is its potential for use as insulation

"We are also getting a good response from the secondary metals industry and we feel that there will be a reliable market for reclaimed steel, particularly from foundry operations.

"Ultimately, and most im-portantly, we hope in the near future to be able to place all of

these new methods and technologies of resource recovery into your hands for the benefit of Ontario municipalities

Mr. McCague expressed the Ministry's concern about leachate control, since most existing landfill sites were built without the stringent technical and hydrogeology studies which are currently required, and its concern about the disposal of

"We are having serious dis-cussions with industry on this issue, since the Ontario government has advocated for some time that the process of safe disposal of liquid industrial wastes must be mainly the respo sibility of the private sector. We believe that waste disposal is part of the cost of doing business and industry should not, there fore, expect the government

alone to solve its problems.
"We have warned manufacturers that if government has to provide and operate such dispo sal facilities, they can expect the costs of disposal to be considerably higher than private facilities. This would also be likely to create unfair com-

petition with the private sector.
"To date, unfortunately, industry's choice has been cheap disposal at landfill sites rather than a more suitable long-term method of treatment or destruction of industrial liquid wastes This has made it difficult for private disposal firms to operate at capacity and at a reasonable

... Watts from Waste in final design stage...

'We believe that the establishment and operation of such facilities are the responsibility of industry. The role of government should be mainly regu-lation and enforcement. We are prepared to assist in research with respect to the utilization of liquid waste, but we expect a much more concerted effort from industry in this regard, since industry will reap the main

benefits from any new methods of utilization," he said. Mr. McCague outlined the Ministry's way-bill regulations with respect to the disposal of industrial wastes, and the hazardous substances program which has been established within the

The objective of this latter program is to pinpoint substances which could potentially cause problems similar to those of PCBs and mercury, and to make recommendations for adequate controls on the release of these materials to the en-

"Waste disposal becomes immediately suspect as a prime vehicle by which these types of substances can be released to the environment. We can anticipate, therefore, that controls on these substances will require that they be treated and disposed of in a safe, approved manner. This further emphasizes the urgent need for adequate disposal





J. R. Barr

W. Biddell appointed ADM

K. H. Sharpe, deputy minis-ter, Ontario Ministry of the Environment, has announced the appointment of William Bidell the position of assistant deputy minister, regional operations and laboratories division Mr. Bidell succeeds J. R. Barr. who has been appointed assistant deputy minister, finance and administration, with the Ontario Ministry of Transportation and Communications

William (Bill) Bidell comes to Environment Ontario from the Ministry of Transportation and Communications, where he was assistant deputy minister finance and administration, since 1976. He joined the then Department of Highways in 1950 following graduation from the University of Toronto as a civil engineer. In Mr. Bidell was named executive director of the planning division for the newly created Ministry of Transportation and Communications. He was appointed assistant deputy minister, planning division in 1972 and assistant deputy minister.

Mr. Barr was born in Wingham, Ont. and joined the then Ontario Department of Health. sanitary engineering division in 1954 as a district engineer after graduation from the University of Toronto. In 1961 he was appointed supervisor of sewage works with the OWRC and be came director of the division in 1965. In 1972 he was appointed director of the sanitary engin-eering branch and in 1973 assistant deputy minister, regional operations and laboratories div

Experts investigate waste paper market

To help Ontario expand mar-kets and find new uses for wastepaper, a 12-member working group has been appointed by the Ministry of the Environment's Waste Management Advisory Board.

Chairman of the group Professor Morris Wayman of Chemical Engineering and Forestry at the University of Toronto, said specific aims of the group include studying the current wastepaper business, identifying opportunities to expand and open up new markets for wastepaper and defining measures to increase recycling of wastepaper.

"One of the keys to the future success of resource recovery is the extent to which government and industry co-operate," said Professor Wayman. "Our job is to make economic sense out of the common sense of waste-

The working group on wastepaper includes representatives of the paper, publishing and in-sulation industries, municipal governments, and manufac

Robert Woolvett, Chairman of the Waste Management Ad-visory Board is an ex-officio member of the Group.

CALENDAR OF EVENTS

May 7 - 10 - American Water Works Association, Ontario Section, annual conference, Ottawa, Ont. - AWWA, 3190 Mavis Rd., Mississauga, Ont.

May 9 - 11 Association for Great Lakes Research, annual conference University of Windsor, Windsor, Ont. - Dept. of Geography. University of Windsor, Windsor. Ont N9R 3P4

May 9 - 11 - Environmental Aspects of Industrial Cooling in Northern Climates, conference, Edmonton, Alta. – Mrs. Susan Schock, W. J. Francl & Assoc., 13245 - 146 St., Edmonton, Alta,

May 14 - 17 - FACE, seventh May 14 - 17 - FACE, sevential annual conference, Association Quebecoise des Techniques de L'Eau, Quebecoite, Que Harold Sohier, AQTE, 6065 Sherbrooke St. W. Montreal, Que. H4A 1Y2

May 15 - 17 — Man and His Environment, third international conference, Banff Springs Hotel, Banff, Alta. — Dr. M. F. Mohtadi, Dept. of Chem. Eng., University of Calgary, Calgary, Alta.

May 18 - 19 - Computer Applications in Hydrotechnical and Municipal Engineering. CSCE specialty conference, Toronto, Ont. – P.O. Box 857, Station "K", Toronto, Ont., M4P 2H2

May 29 - June 1 - Canadian Land Reclamation Association, annual general meeting, Sud-bury, Ont. - Sarah B. Lowe, Box 682, Guelph, Ont. N1H 6L3.

May 31 - June 2 - Canadian Pest Control Association, annual meeting, Holiday Inn down-town, Toronto, – A. H. Gartner, PCO Services Ltd., 232 Norseman Street, Toronto, 416-231-7278





In its ongoing study of mine tailings and disposal areas Environment Ontario is using low level oblique aerial photography extensively. The white areas on the photo at left don't show snow, but a tailings disposal area at

Ouirke Lake. Aerial photos such as this one help to establish a tailings and spill areas inventory. Updated photographs taken at regular intervals show changes in the environment. The photos also reveal sites calling

for closer inspection on the ground. In the photo at right a Ministry technician checks the quality of material leaching from an abandoned tailings site.

78/79 environmental policy firm but realistic

(continued from pg 1)

'The current energy situation has some very important implications that are reflected in the current thrust of our program to develop productive uses for waste material," Mr. McCague told the estimates committee

He said the Ministry of the Environment is involved in a number of studies of the feasibility of using waste as a

The Watts from Waste project, in Metro Toronto.

...develop productive uses for waste...

designed to recover the energy value from about a quarter-mil-lion tons of garbage each year has reached the final design stage with construction expected to begin this year.

Under agreement between Ontario Hydro and Metro Toronto, Environment Ontario will provide the cost of alter-ations at the Lakeview Generating Station and help pay the associated engineering and land acquisition costs.

The processed waste material for this and a similar project studying the full-scale use of refuse-derived fuel at Canada Cement LaFarge in Woodstock is provided by the Ministry's ex-perimental plant for resource recovery in Downsview. In partial operation during the past year, the facility will become fully-operational this spring.

In 1978-79, the Ministry will publicize the results of tests for contaminants in fish from approximately 440 lakes and rivers which have been sampled and analyzed to date

Mr. McCague said service to the public will also continue to be improved in the area of environmental approvals. The normal turn-around time for the review, inspection, and processing of these municipal and in-dustrial approvals, he told the estimates committee, has been reduced in the past year by about 50 per cent.

The Ministry of the Environ-

...fish tests from 440 lakes...

ment's mobile air testing capability will be increased in the coming year by the acquisition of a new, sophisti-

The unit, developed and manufactured in Canada is designed to provide instant-aneous on-the-spot analysis of a wide range of contaminants in-cluding PCBs and hydrogen

Mr. McCague said the ultrasenstive unit will combat a traditional time problem in providing data quickly in emergencies.

In addition to normal research funding, Environment Ontario is involved in nine projects with the Provincial Lottery for health research and health-related en-

research and neath-related en-vironmental projects.

These include the testing of five substitutes for PCBs now being studied by Ontario Hydro. The program is underway at Thunder Bay's Lakehead University where staff are measuring levels of toxicity and bioac-cumulation in fish of possible PCB replacement formulations

Information on and active co-

operation in the organisation of recycling, waste management.

composting, organic gardening and many other ways of energy conservation is made available

through 71 Community Conser-

vation Centres opening as "storefront operations" in towns

The Centres have been

funded by the federal Depart-ment of Energy, Mines and Resources with the aim to create

awareness of the importance of

energy conservation, provide in-

a less energy consuming life style. Information about your nearest Community Conser-

vation Centre is available from:

71 Conservation Centres

open in Ontario towns

New procedure set for asbestos analysis

A recommended procedure for the measurement of asbestos in water has been established by a committee of representatives of Environment Ontario, the Ontario Research Foundation, Health and Welfare Canada, Environment Canada and McMaster and Lakehead Uni-

"Until now there has been no widely-agreed-upon methodo-

Regional Resource Centre, 11 Front St. W. Room 618, Toronto, M5J 1A4 or 428 Vic-

toria Ave., Thunder Bay "F"

logy for the measuring of asbestos levels in the aquatic environment," said Gerry Ronan, director of the Ministry's labo-ratory services branch. "This has led to considerable confusion as different environmental labs would report widely varying levels of asbestos in the same

Committee chairman, Art Rayner, of the Ministry of the Environment said a similar analytical procedure has also recently been proposed by the Environmental Protection Agency in the United States. The new method is currently being used in a survey of asbes tos in Ontario water supplies.

At present, asbestos level guidelines apply only to air. report on the best method for measuring levels of asbestos in air is expected later this year

Ministry of the Environment Ontario

Hon. George R. McCague, Minister K. H. Sharpe, Deputy Minister

Published bi-monthly by the Ministry of the Environment, Information Services Branch, 135 St. Clair Avenue West, Toronto, Ontario, M4V 1P5 for those interested in the many facets of environmental enhancement. Reproduction of articles authorized

Director of Information Services

Robert Koci